

a drive shaft driven by the drive motor;
a roller coupled to the drive shaft which moves with the drive shaft;
an encoder which generates a first signal corresponding to position of the
drive shaft;

a print controller which receives the first signal and in response generates a
second signal fed to the drive motor for controlling the drive motor;
memory which stores a test pattern and a range of adjustments for the
linefeed error adjustment parameter;

a print source which during calibration of the linefeed error adjustment
parameter prints the test plot, the test plot having a plurality of non-overlapping areas, each
area including the stored test pattern printed with a different value for the linefeed error
adjustment parameter, wherein the different values are based upon the stored range of
adjustments of the linefeed error adjustment parameter;

a user interface at which a user generates an input indicating one area of the
plurality of areas; and

processing means which receives the input and in response sets the normal
value for the linefeed error adjustment parameter to be the value corresponding to the
indicated one area of the plurality of areas of the test plot;

[The apparatus of claim 15,] wherein the drive motor, drive shaft, roller,
encoder and print controller are part of a printer, the apparatus further comprising:

means for tracking the use of the printer, and wherein the processing means
varies the normal value of the linefeed error parameter value as a function of the tracked
usage of the printer.

~~18.~~ 5. (Amended) An apparatus which prints a test plot onto a media sheet to calibrate a normal value for a linefeed error adjustment parameter, the apparatus comprising:

a drive motor;

a drive shaft driven by the drive motor;

a roller coupled to the drive shaft which moves with the drive shaft;

an encoder which generates a first signal corresponding to position of the drive shaft;

a print controller which receives the first signal and in response generates a second signal fed to the drive motor for controlling the drive motor;

memory which stores a test pattern and a range of adjustments for the linefeed error adjustment parameter;

a print source which during calibration of the linefeed error adjustment parameter prints the test plot, the test plot having a plurality of non-overlapping areas, each area including the stored test pattern printed with a different value for the linefeed error adjustment parameter, wherein the different values are based upon the stored range of adjustments of the linefeed error adjustment parameter;

a user interface at which a user generates an input indicating one area of the plurality of areas; and

processing means which receives the input and in response sets the normal value for the linefeed error adjustment parameter to be the value corresponding to the indicated one area of the plurality of areas of the test plot;

[The apparatus of claim 15,] wherein the drive motor, drive shaft, roller, encoder and print controller are part of a printer, and wherein the apparatus further

comprises a host computer, the host computer sending to the printer a command indicating media type for an ensuing print job, the apparatus further comprising:

means for deriving a temporary linefeed error parameter value for use in printing said ensuing print job which is derived as a function of the normal value of the linefeed error adjustment parameter and the indicated media type.

6 19. (Amended) An apparatus which prints a test plot onto a media sheet to calibrate a normal value for a linefeed error adjustment parameter, the apparatus comprising:

a drive motor;

a drive shaft driven by the drive motor;

a roller coupled to the drive shaft which moves with the drive shaft;

an encoder which generates a first signal corresponding to position of the drive shaft;

a print controller which receives the first signal and in response generates a second signal fed to the drive motor for controlling the drive motor;

memory which stores a test pattern and a range of adjustments for the linefeed error adjustment parameter;

a print source which during calibration of the linefeed error adjustment parameter prints the test plot, the test plot having a plurality of non-overlapping areas, each area including the stored test pattern printed with a different value for the linefeed error adjustment parameter, wherein the different values are based upon the stored range of adjustments of the linefeed error adjustment parameter;

a user interface at which a user generates an input indicating one area of the plurality of areas; and

processing means which receives the input and in response sets the normal value for the linefeed error adjustment parameter to be the value corresponding to the indicated one area of the plurality of areas of the test plot;

[The printer of claim 15,] wherein the memory stores adjustment factors corresponding to different media types and wherein the processing means adjusts the linefeed error adjustment parameter for a given print job based upon the media type for said print job.

b2 **7 20.** (Amended) An apparatus which prints a test plot onto a media sheet to calibrate a normal value for a linefeed error adjustment parameter, the apparatus comprising:

a drive motor;

a drive shaft driven by the drive motor;

a roller coupled to the drive shaft which moves with the drive shaft;

an encoder which generates a first signal corresponding to position of the drive shaft;

a print controller which receives the first signal and in response generates a second signal fed to the drive motor for controlling the drive motor;

memory which stores a test pattern and a range of adjustments for the linefeed error adjustment parameter;

a print source which during calibration of the linefeed error adjustment parameter prints the test plot, the test plot having a plurality of non-overlapping areas, each

area including the stored test pattern printed with a different value for the linefeed error adjustment parameter, wherein the different values are based upon the stored range of adjustments of the linefeed error adjustment parameter;

a user interface at which a user generates an input indicating one area of the plurality of areas; and

processing means which receives the input and in response sets the normal value for the linefeed error adjustment parameter to be the value corresponding to the indicated one area of the plurality of areas of the test plot;

[The printer of claim 15,] wherein the memory stores adjustment factors corresponding to different media stocks and wherein the processing means adjusts the linefeed error adjustment parameter for a given print job based upon the media stock for said print job.

8 *21.* (Amended) An apparatus which prints a test plot onto a media sheet to calibrate a normal value for a linefeed error adjustment parameter, the apparatus comprising:

a drive motor;

a drive shaft driven by the drive motor;

a roller coupled to the drive shaft which moves with the drive shaft;

an encoder which generates a first signal corresponding to position of the drive shaft;

a print controller which receives the first signal and in response generates a second signal fed to the drive motor for controlling the drive motor;

memory which stores a test pattern and a range of adjustments for the linefeed error adjustment parameter;

a print source which during calibration of the linefeed error adjustment parameter prints the test plot, the test plot having a plurality of non-overlapping areas, each area including the stored test pattern printed with a different value for the linefeed error adjustment parameter, wherein the different values are based upon the stored range of adjustments of the linefeed error adjustment parameter;

a user interface at which a user generates an input indicating one area of the plurality of areas; and

processing means which receives the input and in response sets the normal value for the linefeed error adjustment parameter to be the value corresponding to the indicated one area of the plurality of areas of the test plot;

[The printer of claim 15,] wherein the memory stores adjustment factors corresponding to different media finishes and wherein the processing means adjusts the linefeed error adjustment parameter for a given print job based upon the media finish for said print job.

9 22. The apparatus of claim [15,] 19, wherein the apparatus further comprises a sensor for detecting media type; and

means for determining a temporary linefeed error parameter value for use in printing said ensuing print job which is derived as a function of the normal value of the linefeed error adjustment parameter and a detected media type.